WHAT IS CLAIMED IS:

1	1. A method for producing a digital model of a patient's dentition having
2	an attached attachment device, said method comprising:
3	providing a digital model of a patient's dentition;
4	providing a digital model of an attachment device; and
5	combining the digital model of the attachment device on digital model of the
5	patient's dentition to produce a digital model comprising the attachment device.
1	2. A method as in claim 1, wherein providing a digital model of the
2	patient's dentition comprises scanning the patient's teeth.
1	3. A method as in claim 1, wherein providing a digital model of the
2	patient's dentition comprises scanning a mold of the patient's teeth.
1	4. A method as in claim 1, further comprising modifying the digital
2	model of the patient's dentition prior to combining the modified digital dentition model with
3	the digital model of the attachment device.
1	5. A method as in any of claims 1 to 4, further comprising manufacturing
2	an appliance comprising a polymeric shell which conforms to the dentition and an attachment
3	device based on the combined digital model.
1	6. A method as in claim 5, wherein manufacturing comprises producing a
2	positive mold based on the combined data and fabricating the polymeric shell over the mold.
1	7. A method as in claim 1, wherein providing a digital model of the
2	attachment device comprises selecting the digital model of the attachment from a library of
3	such attachments.
1	8. A method for fabricating a dental appliance, comprising:
2	providing a digital model of a patient's dentition;
3	providing a digital model of an attachment device;
4	combining the digital model of the attachment device on the digital model of
5	the patient's dentition; and

- from the combined digital model, fabricating the dental appliance having a receptacle adapted to engage the attachment device when the appliance is worn by the patient.
- 9. A method as in claim 8, wherein providing a digital model of the patient's dentition comprises scanning the patient's teeth.
- 1 10. A method as in claim 8, wherein providing a digital model of the patient's dentition comprises scanning a mold of the patient's teeth.
- 1 11. A method as in claim 8, further comprising modifying the digital 2 model of the patient's dentition prior to combining the modified digital dentition model with 3 the digital model of the attachment device.
 - 12. A method as in claim 8, wherein fabricating comprises producing a positive mold based on the combined data and molding the polymeric shell over the mold.

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- 1 13. A method as in claim 8, wherein providing a digital model of the 2 attachment device comprises selecting the digital model of the attachment from a library of 3 such attachments.
 - 14. Dental appliances produced by the methods of claims 1 or 8.